

**SCORE Search Results Details for Application 10573229 and Search Result 20090528\_121050\_us-10-573-229a-1.rng.**

<a href="#">Score Home</a>	<a href="#">Retrieve Application</a>	<a href="#">SCORE System</a>	<a href="#">SCORE</a>	<a href="#">Comments /</a>
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OM nucleic - nucleic search, using sw model

Run on: May 31, 2009, 21:45:58 ; Search time 320 Seconds  
(without alignments)  
47647.773 Million cell updates/sec

Title: US-10-573-229A-1  
Perfect score: 920  
Sequence: 1 tctgtagaggggaatggctg.....acccccaaagaaaccttcta 920

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 14112681 seqs, 8286569208 residues

Total number of hits satisfying chosen parameters: 28225362

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : N\_Geneseq\_200812:\*  
1: geneseqn1:\*  
2: geneseqn2:\*  
3: geneseqn3:\*  
4: geneseqn4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result			%					
	No.	Score	Query Match	Length	DB	ID	Description	
	1	920	100.0	920	2	ADZ14485	Adz14485 DNA encod	
	2	920	100.0	920	3	AEL40763	Ael40763 Human tum	
c	3	178.2	19.4	390	2	ADZ14751	Adz14751 ORF DNA e	
c	4	176.6	19.2	390	3	AEL41029	Ael41029 Human tum	
	5	122.6	13.3	561	1	ADY36463	Ady36463 HIRA geno	
	6	122.6	13.3	561	1	ADS31075	Ads31075 Human gen	
	7	121.2	13.2	541	1	ADY36462	Ady36462 HIRA geno	
	8	121.2	13.2	541	1	ADS31074	Ads31074 Human gen	
	9	104.8	11.4	737	1	ADC20771	Adc20771 Human sec	
	10	104.8	11.4	737	1	ADA44374	Ada44374 Human sec	
	11	104.8	11.4	737	1	ADF10918	Adf10918 Human sec	
	12	104.8	11.4	737	1	ADA98650	Ada98650 Human sec	
	13	104.8	11.4	737	3	AOD72587	Aod72587 Human sec	
	14	104.8	11.4	797	1	AAC79717	Aac79717 Human sec	
	15	104.8	11.4	797	1	ADC20168	Adc20168 Human sec	
	16	104.8	11.4	797	1	ADA43908	Ada43908 Human sec	
	17	104.8	11.4	797	1	ADF10604	Adf10604 Human sec	
	18	104.8	11.4	797	1	ADA98008	Ada98008 Human sec	
	19	104.8	11.4	797	3	AOD66200	Aod66200 Human sec	
	20	104.8	11.4	797	4	ATC73738	Atc73738 Human sec	
c	21	104.8	11.4	137000	2	ADH77370	Adh77370 Human PTP	
c	22	104.8	11.4	137000	3	AEE96219	Aee96219 Human PTP	
	23	104.2	11.3	744	2	AGE46923	Age46923 Human sin	
c	24	101.8	11.1	138244	2	AEX41464	Aex41464 Human rhe	
c	25	101.2	11.0	6000	4	ATN10540	Atn10540 Human tra	
c	26	98.4	10.7	84105	2	AFS52981	Afs52981 Human pol	
c	27	98	10.7	55927	2	AFI73361	Afi73361 Human gen	
c	28	97.8	10.6	9245	2	AFI71693	Afi71693 Human gen	
c	29	97.8	10.6	9245	2	AFI71694	Afi71694 Human gen	
	30	97.4	10.6	10252	1	AAS31966	Aas31966 Human liv	
	31	97.4	10.6	10252	1	AAK90931	Aak90931 Human dig	
	32	97.4	10.6	10252	1	ABN90321	Abn90321 Human liv	
	33	97.4	10.6	10252	1	ADJ15234	Adj15234 Human liv	
c	34	97.4	10.6	142439	4	ATR89011	Atr89011 Human can	
	35	95.4	10.4	3361	2	ADQ64498	Adq64498 Novel hum	
c	36	93.6	10.2	153170	2	ADQ17382	Adq17382 Human sof	
c	37	92.2	10.0	101099	3	AEG93597	Aeg93597 Human tum	
c	38	91.8	10.0	143550	2	AFI72487	Afi72487 Human gen	
	39	91.4	9.9	1399	4	ARY86811	Ary86811 Psoriasis	
	40	91.4	9.9	1410	4	ARY86813	Ary86813 Psoriasis	
	41	91.4	9.9	1458	4	ARY86809	Ary86809 Psoriasis	
	42	91.4	9.9	173805	1	ADL13775	Adl13775 Osteoarth	
	43	91.4	9.9	215308	3	ASQ09904	Asq09904 Human CTD	

44	90.8	9.9	76118	2	AFI73937	Afi73937 Human gen
45	90.8	9.9	92117	1	ACN44746	Acn44746 Human gen

## ALIGNMENTS

## RESULT 1

## ADZ14485

ID ADZ14485 standard; DNA; 920 BP.

XX

AC ADZ14485;

XX

DT 11-JUN-2007 (revised)

DT 16-JUN-2005 (first entry)

XX

DE DNA encoding a human tumor associated antigen Seq 1.

XX

KW chromosome 6; tumor-associated antigen; antisense therapy;

KW RNA interference; diagnosis; cytostatic; cancer; metastasis; gene; ds.

XX

OS Homo sapiens.

XX

PN WO2005030250-A2.

XX

PD 07-APR-2005.

XX

PF 23-SEP-2004; 2004WO-EP010697.

XX

PR 26-SEP-2003; 2003DE-01044799.

XX

PA (GANY-) GANYMED PHARM AG.

XX

PI Tuereci O, Sahin U, Helftenbein G, Schlueter V;

XX

DR WPI; 2005-285105/29.

DR P-PSDB; ADZ14486.

DR PC:NCBI; gi22697845.

XX

PT Compositions for treating and diagnosing cancer, contain agents that  
 PT inhibit activity or expression of specific tumor-associated antigens, or  
 PT bind to these antigens or nucleic acid encoding them.

XX

PS Claim 1; SEQ ID NO 1; 388pp; German.

XX

CC This invention relates to a novel pharmaceutical composition which  
 CC comprises an agent that inhibits the activity or expression of a specific  
 CC tumor-associated antigen (TAG). Specifically, it relates to tumor-  
 CC associated antigens that are encoded by one of the following 75 nucleic

CC Revised record issued on 11-JUN-2007 : Enhanced with precomputed  
CC information from BOND.

Sequence 920 BP; 238 A; 255 C; 255 G; 172 T; 0 U; 0 Other;

Query Match 100.0%; Score 920; DB 2; Length 920;  
Best Local Similarity 100.0%; Pred. No. 2.3e-273;  
Matches 920; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TCTGTAGAGGGGAATGGCTGCTGTGTTCATGGGGTGCATGAGCAGCCAGTGGAGAGGTG	60
Db	1	TCTGTAGAGGGGAATGGCTGCTGTGTTCATGGGGTGCATGAGCAGCCAGTGGAGAGGTG	60
Qy	61	CAC TTGGT GAG AAA CCG ATGC CTCTGCC AACCA CTG CACTAAC CTGCTGGGTCTGAGAC	120
Db	61	CAC TTGGT GAG AAA CCG ATGC CTCTGCC AACCA CTG CACTAAC CTGCTGGGTCTGAGAC	120
Qy	121	TGAGCCACTTTGGAAGCTGATCTTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCAC	180
Db	121	TGAGCCACTTTGGAAGCTGATCTTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCAC	180
Qy	181	AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCTTGGCTAAATT	240
Db	181	AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCTTGGCTAAATT	240
Qy	241	GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGACCTCCATCAGGTGTCGACAAGGAA	300
Db	241	GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGACCTCCATCAGGTGTCGACAAGGAA	300
Qy	301	GATCCCA GTAGG CAGGAGACAGGAGCACCTCTGCTGTGGCCAATGCAGGAATGCTGGCC	360
Db	301	GATCCCA GTAGG CAGGAGACAGGAGCACCTCTGCTGTGGCCAATGCAGGAATGCTGGCC	360
Qy	361	ATCATTGCTTCTGCTGGGCGACTGAGAAGCATCACCCACTTCCCAGAACCTTTTTTACG	420

Db 361 ATCATTGCTTCTGCTGGGCGACTGAGAAGCATCACCCACTTCCCCAGAACCTTTTTTACG 420

Qy 421 TGGAGTGAAACTTTAAGGGGCTGTCCAGCTAAACCTCCAACCTCCAGATCCCATGCCAA 480  
|||||

Db 421 TGGAGTGAAACTTTAAGGGGCTGTCCAGCTAAACCTCCAACCTCCAGATCCCATGCCAA 480

Qy 481 TTTCTCTGCTTCTGCAAAAGGACTTCAAGTGAAAGACATCTGCAGCTGTGAACGGGGGTA 540  
|||||

Db 481 TTTCTCTGCTTCTGCAAAAGGACTTCAAGTGAAAGACATCTGCAGCTGTGAACGGGGGTA 540

Qy 541 AAACCTCCCTGCCCCAGGCCCAAGCAAGGATTTCCTAGCGGGGAGGAAGGTAGAAATC 600  
|||||

Db 541 AAACCTCCCTGCCCCAGGCCCAAGCAAGGATTTCCTAGCGGGGAGGAAGGTAGAAATC 600

Qy 601 GAGAGACCTCTAACCTGGGAGAGGAGGGAGGGAATCTCCGAGGACCAGGGTTATGCAA 660  
|||||

Db 601 GAGAGACCTCTAACCTGGGAGAGGAGGGAGGGAATCTCCGAGGACCAGGGTTATGCAA 660

Qy 661 CAACACAAGGGAAGTACCTGCTGGGTCTGGGGGTTGGGGAAGGAAATCCCTACTGCCC 720  
|||||

Db 661 CAACACAAGGGAAGTACCTGCTGGGTCTGGGGGTTGGGGAAGGAAATCCCTACTGCCC 720

Qy 721 CAAGAGCCAGCCCCGAACCCAAGGCACAGCTTATACTGGCCCCGGGGCCTGGGGGGGCAC 780  
|||||

Db 721 CAAGAGCCAGCCCCGAACCCAAGGCACAGCTTATACTGGCCCCGGGGCCTGGGGGGGCAC 780

Qy 781 GAAACCTTGAAAAGGGGCGCCTTCCCAGCTTCCCCGGGGGTAAGGGCTTTACCCCCA 840  
|||||

Db 781 GAAACCTTGAAAAGGGGCGCCTTCCCAGCTTCCCCGGGGGTAAGGGCTTTACCCCCA 840

Qy 841 GAGGGGGGGGGAATAATCCGAGTGGGATCTTTCCCAACCGCCGAAGACTAAAACCTTTAA 900  
|||||

Db 841 GAGGGGGGGGGAATAATCCGAGTGGGATCTTTCCCAACCGCCGAAGACTAAAACCTTTAA 900

Qy 901 ACCCCCAAAGAAACCTTCTA 920  
|||||

Db 901 ACCCCCAAAGAAACCTTCTA 920

## RESULT 2

AEL40763

ID AEL40763 standard; DNA; 920 BP.

XX

AC AEL40763;

XX

DT 11-JUN-2007 (revised)

DT 11-JAN-2007 (first entry)

XX

DE Human tumor-associated DNA SEQ ID NO 1.

XX  
KW antigen; tumor; neoplasm; diagnosis; therapeutic; cytostatic;  
KW tumor-associated antigen; colon tumor; rectal tumor; renal tumor;  
KW adrenal tumor; breast tumor; prostate tumor; uterus tumor; ovary tumor;  
KW endometroid carcinoma; esophagus tumor; liver tumor; pancreas tumor;  
KW skin tumor; brain tumor; lung tumor; lymphoma; nervous system tumor;  
KW carcinoma; chromosome-6; gene; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO2006100089-A2.  
XX  
PD 28-SEP-2006.  
XX  
PF 23-MAR-2006; 2006WO-EP002695.  
XX  
PR 24-MAR-2005; 2005DE-10013846.  
XX  
PA (GANY-) GANYMED PHARM AG.  
XX  
PI Sahin U, Tuereci O, Koslowski M, Helftenbein G, Usener D;  
PI Schlueter V;  
XX  
DR WPI; 2006-789387/80.  
DR P-PSDB; AEL40764.  
DR PC:NCBI; gi22697845.  
XX  
PT Pharmaceutical composition containing inhibitors of specific tumor-  
PT associated antigens, useful for treating cancers, also diagnosis and  
PT monitoring using antigen-specific reagents.  
XX  
PS Claim 1; SEQ ID NO 1; 398pp; German.  
XX  
CC This invention describes a novel method of identifying surface-associated  
CC antigens for tumor diagnosis and therapy whereby tumor-associated genetic  
CC products are identified and treated. The therapy and diagnosis applies to  
CC diseases in which the tumor-associated products are aberrantly expressed,  
CC i.e. proteins, polypeptides and peptides expressed in association with  
CC the tumor and it encodes nucleic acids for said proteins, polypeptides and  
CC peptides. The novel process has applications in medicine, particularly  
CC oncology and can be used to make pharmaceuticals for the therapy of  
CC colon, rectal, kidney, adrenal glands, breast, prostate, uterus, ovary,  
CC endometrial, esophagus, blood, liver, pancreas, skin, brain, lung  
CC cancers, lymphoma, neuroblastoma or other carcinomas. This sequence  
CC encodes a tumor-associated protein used in the method of the invention  
CC which is localized on chromosome 6 (6q26-27).  
CC  
CC Revised record issued on 11-JUN-2007 : Enhanced with precomputed  
CC information from BOND.

XX

SQ Sequence 920 BP; 238 A; 255 C; 255 G; 172 T; 0 U; 0 Other;

Query Match 100.0%; Score 920; DB 3; Length 920;  
 Best Local Similarity 100.0%; Pred. No. 2.3e-273;  
 Matches 920; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TCTGTAGAGGGGAATGGCTGCTGTGTCATGGGGTGTCATGAGCAGCCAGTGGAGAGGTG	60
Db	1	TCTGTAGAGGGGAATGGCTGCTGTGTCATGGGGTGTCATGAGCAGCCAGTGGAGAGGTG	60
Qy	61	CACCTTGGTGAGAAACCGATGCCTCTGCCAACCACTGCACTAACCTGCTGGGTCTGAGAC	120
Db	61	CACCTTGGTGAGAAACCGATGCCTCTGCCAACCACTGCACTAACCTGCTGGGTCTGAGAC	120
Qy	121	TGAGCCACTTTGGAAGCTGATCTTGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCAC	180
Db	121	TGAGCCACTTTGGAAGCTGATCTTGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCAC	180
Qy	181	AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT	240
Db	181	AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT	240
Qy	241	GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGACCTCCATCAGGTGTCGACAAGGAA	300
Db	241	GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGACCTCCATCAGGTGTCGACAAGGAA	300
Qy	301	GATCCCACTAGGGCAGGAGACAGGAGCACCTCTGCTGTGGCCAATGCAGGAATGCTGGCC	360
Db	301	GATCCCACTAGGGCAGGAGACAGGAGCACCTCTGCTGTGGCCAATGCAGGAATGCTGGCC	360
Qy	361	ATCATTGCTTCTGCTGGGCGACTGAGAAGCATCACCCACTTCCCAGAACCTTTTTTACG	420
Db	361	ATCATTGCTTCTGCTGGGCGACTGAGAAGCATCACCCACTTCCCAGAACCTTTTTTACG	420
Qy	421	TGGAGTGAAAACITTAAGGGGCTGTCCAGCTAAACCTCCAACCTCCAGATCCCATGCCAA	480
Db	421	TGGAGTGAAAACITTAAGGGGCTGTCCAGCTAAACCTCCAACCTCCAGATCCCATGCCAA	480
Qy	481	TTTCTCTGCTTCTGCAAAAGGACTTCAAGTGAAAGACATCTGCAGCTGTGAACGGGGGTA	540
Db	481	TTTCTCTGCTTCTGCAAAAGGACTTCAAGTGAAAGACATCTGCAGCTGTGAACGGGGGTA	540
Qy	541	AAACCTCCCTGCCCCAGGCCCAAGCAAGGATTTCCCTAGCGGGGAGGAAGGTAGAATC	600
Db	541	AAACCTCCCTGCCCCAGGCCCAAGCAAGGATTTCCCTAGCGGGGAGGAAGGTAGAATC	600
Qy	601	GAGAGACCTTAACCTGGGAGAGGAGGGAGGGAAATCTCCGAGGACCAGGGTTATGCAA	660

Db	601	GAGAGACCTCTAACCCCTGGGAGAGGAGGGAGGGAAATCTCCGAGGACCAGGGTTATGCAA	660
Qy	661	CAACACAAGGGAAGTACCTGCTGGGTCTGGGGTTGGGGAAGGAAAATCCCTACTGCCC	720
Db	661	CAACACAAGGGAAGTACCTGCTGGGTCTGGGGTTGGGGAAGGAAAATCCCTACTGCCC	720
Qy	721	CAAGAGCCAGCCCCGAACCCAAGGCACAGCTTATACTGGCCCCGGGGCCTGGGGGGGCAC	780
Db	721	CAAGAGCCAGCCCCGAACCCAAGGCACAGCTTATACTGGCCCCGGGGCCTGGGGGGGCAC	780
Qy	781	GAAAACCTTGAAAAGGGGCGCCTTCCCAGCTTCCCCGGGGGTAAGGGCTTTACCCCCCA	840
Db	781	GAAAACCTTGAAAAGGGGCGCCTTCCCAGCTTCCCCGGGGGTAAGGGCTTTACCCCCCA	840
Qy	841	GAGGGGGGGGAAAAATCCGAGTGGGATCTTTCCCAACCGCCGAAGACTAAAACCTTTAA	900
Db	841	GAGGGGGGGGAAAAATCCGAGTGGGATCTTTCCCAACCGCCGAAGACTAAAACCTTTAA	900
Qy	901	ACCCCCAAAGAAACCTTCTA	920
Db	901	ACCCCCAAAGAAACCTTCTA	920

## RESULT 3

ADZ14751/c

ID ADZ14751 standard; DNA; 390 BP.

XX

AC ADZ14751;

XX

DT 16-JUN-2005 (first entry)

XX

DE ORF DNA encoding a human tumor associated antigen Seq 267.

XX

KW chromosome 6; tumor-associated antigen; antisense therapy;

KW RNA interference; diagnosis; cytostatic; cancer; metastasis; gene; ds.

XX

OS Homo sapiens.

XX

PN WO2005030250-A2.

XX

PD 07-APR-2005.

XX

PF 23-SEP-2004; 2004WO-EP010697.

XX

PR 26-SEP-2003; 2003DE-01044799.

XX

PA (GANY-) GANYMED PHARM AG.

XX

PI Tuereci O, Sahin U, Helftenbein G, Schlueter V;





RESULT 4

AEL41029/c

ID AEL41029 standard; DNA; 390 BP.

XX

AC AEL41029;

XX

DT 11-JAN-2007 (first entry)

XX

DE Human tumor-associated DNA SEQ ID NO 267.

XX

KW antigen; tumor; neoplasm; diagnosis; therapeutic; cytostatic;  
 KW tumor-associated antigen; colon tumor; rectal tumor; renal tumor;  
 KW adrenal tumor; breast tumor; prostate tumor; uterus tumor; ovary tumor;  
 KW endometroid carcinoma; esophagus tumor; liver tumor; pancreas tumor;  
 KW skin tumor; brain tumor; lung tumor; lymphoma; nervous system tumor;  
 KW carcinoma; chromosome-6; gene; ds.

XX

OS Homo sapiens.

XX

PN WO2006100089-A2.

XX

PD 28-SEP-2006.

XX

PF 23-MAR-2006; 2006WO-EP002695.

XX

PR 24-MAR-2005; 2005DE-10013846.

XX

PA (GANY-) GANYMED PHARM AG.

XX

PI Sahin U, Tuereci O, Koslowski M, Helftenbein G, Usener D;

PI Schlueter V;

XX

DR WPI; 2006-789387/80.

DR P-PSDB; AEL41030.

XX

PT Pharmaceutical composition containing inhibitors of specific tumor-  
 PT associated antigens, useful for treating cancers, also diagnosis and  
 PT monitoring using antigen-specific reagents.

XX

PS Claim 1; SEQ ID NO 267; 398pp; German.

XX

CC This invention describes a novel method of identifying surface-associated  
 CC antigens for tumor diagnosis and therapy whereby tumor-associated genetic  
 CC products are identified and treated. The therapy and diagnosis applies to  
 CC diseases in which the tumor-associated products are aberrantly expressed,  
 CC i.e. proteins, polypeptides and peptides expressed in association with  
 CC the tumor and it encodes nucleic acids for said proteins, polypeptides and

```

Query Match          19.2%;   Score 176.6;   DB 3;   Length 390;
Best Local Similarity 93.0%;   Pred. No. 2.1e-43;
Matches 185;   Conservative    0;   Mismatches 14;   Indels    0;   Gaps    0;

Qy      328  ACCTCTGCTGTGGCCAATGCAGGAATGCTGGCCATCATTGCTTCTGCTGGGCGACTGAGA 387
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      264  ATCTCTGCTGTGGCCAATGCAGGAATGCTGGCCATCATTGCTTCTGCTGGGCGACTGAGA 205

Qy      388  AGCATCACCCACTTCCCCAGAACCTTTTTTACGTGGAGTGAAAACITTTAAGGGGCTGTCC 447
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      204  AGCATCACCCACTTCCCCAGAACCTTTTTTACGTGGAGTGAAAACITTTAAGGGGCTGTCC 145

Qy      448  AGCTAAACCTCCAACCTCCAGATCCCATGCCAATTTCTCTGCTTCTGCAAAGGACTTCA 507
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      144  AGCTAAACCTCCAACCTCCAGATWCCATGCCAATTTCTCTGCTTCTGCAAAGGACTCAT 85

Qy      508  AGTGAAAGACATCTGCAGC 526
          | | | | | | | |
Db      84  GGGCAGCGTTATCCACAGC 66

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XX
AC  ADY36463;
XX
DT  05-MAY-2005   (first entry)
XX
DE  HIRA genomic fragment SEQ ID NO 108.

```

XX  
PD 22-NOV-2001.

XX  
PF 15-MAY-2001; 2001WO-US015674.  
XX  
PR 16-MAY-2000; 2000US-00573080.  
PR 14-MAY-2001; 2001US-00854867.  
XX  
PA (CHIL-) CHILDREN'S MERCY HOSPITAL.  
XX  
PI Knoll JHM, Rogan PK, Cazarro PM;  
XX  
DR WPI; 2002-062378/08.  
XX  
PT Single copy genomic hybridization probes for detecting specific nucleic  
PT acid sequences in sample by in situ hybridization useful for detection of  
PT acquired or inherited genetic diseases.  
XX  
PS Example 1; SEQ ID NO 108; 67pp; English.  
XX  
CC The invention describes a nucleic acid hybridization probe (I) comprising  
CC a labeled, single copy nucleic acids of at least 50 nucleotides, which  
CC will hybridize to a deduced single copy sequence interval in target  
CC nucleic acid (TNA) of known sequence. (I) is useful in a hybridization  
CC method which comprises preparing a reaction mixture comprising TNA and  
CC (I) which hybridizes to TNA, and causing (I) to hybridize to TNA, where  
CC the hybridization method is from in situ hybridization, Southern blot,  
CC and other methods in which nucleic acid is immobilized, where the method  
CC further comprises selecting a single copy nucleic acid which will  
CC hybridize to a duplicon or triplicon sequence domain. (I) is useful for:  
CC determining the existence of previously unknown repeat sequence families  
CC in a genome; determining a chromosome breakpoint and in the fields of  
CC cytogenetics and molecular genetics for determining the presence of  
CC specific nucleic acid sequences in a sample of eukaryotic origin, e.g.  
CC the probes may be used to analyze specific chromosomal locations by in  
CC situ hybridization as a detection of acquired or inherited genetic  
CC diseases especially for detection of genetic or neoplastic disorders.  
CC Unlike prior art techniques, (I) permits more precise chromosomal  
CC breakpoint determinations by in situ hybridization. Hybridization  
CC techniques utilizing (I), have made it possible to obtain reliable,  
CC easily detectable signals with relatively small probes. A readily  
CC detectable signal was obtained with a probe on the order of 2 kb in  
CC length, using fluorescent in situ hybridization (FISH) technology. This  
CC sensitivity of (I) is improved compared to the prior art, because the  
CC probes of (I) are homogeneous single copy sequences. However, smaller  
CC amplified segments, each comprising non-repetitive sequences, may also be  
CC used in combination as probes to achieve adequate signals for in situ  
CC hybridization. Complex single copy probes that hybridize to duplicated or  
CC triplicated targets can also increase hybridization signals. This  
CC sequence represents a human HIRA genomic sequence that shows homology to  
CC a known high-complexity repeat sequence family of the human genome and is

Qy		2 CTGTAGAGGGGAATGGCTGCTGTGTGCATGGGGTGCATGACGAGCCCACTGGAGAGGTGC	61
Db	201	CTCTGGGGGAAGCCAGCTGCCATGTTCATGAGGACTCAAGCAGCCCCTGTGGAGAGGCCCC	260
Qy		62 ACTTGTTGAGAACCAGTAGCCT-CTGCCAACCACTGCACTAACTGCTGGGTC-----	114
Db	261	ATGTGGCAAAGGAAGTAGGCGCTCCTGCCAAGCCAGCAAGGAAGTAGGCGCTCCTGCCA	320
Qy		115 -----TGAGACTGAGCCA CTTTGAAGCTGATCTTGGAGCACCAAGCCCTTAGC	167
Db	321	ACAGCCATGTGAGTGAGCCATCTTGAAGCAGATCCTCCAGCCCCAGTCAAGCCCTCAGA	380
Qy		168 TGGCTGCAGCCACAGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATC	227
Db	381	TGACTGCAGCCCCAGCTAACATCTTGACTGCAACCTCATGAGAGACCCTGAGCCAGAACC	440
Qy		228 CCCTGGCTAAAATTGCTCCTTGATTCCTTAACCCACAGAAATTGTGTAAGA	276
Db	441	ACCCAGCTAAGCTGCTCCTAAATTCCTGACCCACAGAACTGTGAGAGA	489

ADS31075

```
ID ADS31075 standard; DNA; 561 BP.
XX
AC ADS31075;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human genome high complexity repeat found in the HIRA gene #108.
XX
KW Human; ds;
KW histone cell cycle regulation defective, S. cerevisiae homologue A; HIRA;
KW high complexity repeat; in situ hybridisation; Southern blot;
KW chromosome breakpoint; inherited genetic disease; neoplastic disorder;
KW chromosome 22; DiGeorge syndrome; Velo-Cardio-facial syndrome.
XX
OS Homo sapiens.
XX
PN US2003224356-A1.
XX
```

PD 04-DEC-2003.

XX  
PF 14-MAY-2001; 2001US-00854867.

XX  
PR 16-MAY-2000; 2000US-00573080.

XX  
PA (KNOL/) KNOLL J H M.

PA (ROGA/) ROGAN P K.

XX  
PI Knoll JHM, Rogan PK;

XX  
DR WPI; 2002-062378/08.

XX  
PT Single copy genomic hybridization probes for detecting specific nucleic  
PT acid sequences in sample by in situ hybridization useful for detection of  
PT acquired or inherited genetic diseases.

XX  
PS Example 1; SEQ ID NO 108; 30pp; English.

XX  
CC The invention relates to a nucleic acid hybridisation probe comprising a  
CC labelled, single copy nucleic acids of at least 50 nucleotides, which  
CC will hybridise to a deduced single copy sequence interval in target  
CC nucleic acid (TNA) of known sequence. The single copy sequence is deduced  
CC by comparing the target nucleic acid (e.g. a disease causing gene) with a  
CC collection of high and low complexity repeat sequences as found in the  
CC genome of the organism from containing the target nucleic acid. The probe  
CC is generated by PCR on the target sequence. The probe is essentially free  
CC of blocking nucleic acid sequences which will hybridise to repeat  
CC sequences within the genome of which the TNA is a part, and is labelled  
CC with a label selected from fluorochrome-responsive labels, fluorochromes,  
CC calorimetric chemical, conjugated proteins, antibodies, antigens and  
CC their mixtures. The probe is useful in a hybridisation method, where the  
CC hybridisation method is from in situ hybridisation, Southern blot, and  
CC other methods in which nucleic acid is immobilised, where the method  
CC further comprises selecting a single copy nucleic acid which will  
CC hybridise to a duplicon or triplicon sequence domain. The probe is useful  
CC for determining the existence of previously unknown repeat sequence  
CC families in a genome. The method comprises reacting a labelled probe with  
CC the genome, causing the probe to hybridise and ascertaining if the probe  
CC hybridises to the genome at more than three preferably ten different  
CC locations as a determination of new repeat sequence family, where the  
CC determining step comprises selecting the single copy sequence from a  
CC duplicon or triplicon sequence domain. The probe is useful for  
CC determining a chromosome breakpoint and is useful in the fields for  
CC cytogenetics and molecular genetics for determining the presence of  
CC specific nucleic acid sequences in a sample of eukaryotic origin, e.g.  
CC the probes may be used to analyse specific chromosomal locations by in  
CC situ hybridisation as a detection of acquired or inherited genetic  
CC diseases especially for detection of genetic or neoplastic disorders.

Query Match 13.3%; Score 122.6; DB 1; Length 561;  
Best Local Similarity 69.6%; Pred. No. 1.3e-26;  
Matches 201; Conservative 0; Mismatches 74; Indels 14; Gaps 2;

[illegible]

http://es.ScoreAccessWeb/GetItem.action?AppId=10573... 121050 us-10-573-229a-1.rng&ItemType=4&startByte=0 (15 of 32)/6/15/2009 10:35:14 AM

KW hybridization; DNA detection; neoplasm; genetic disorder; cytogenetics;  
 KW HIRA; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200188089-A2.  
 XX  
 PD 22-NOV-2001.  
 XX  
 PF 15-MAY-2001; 2001WO-US015674.  
 XX  
 PR 16-MAY-2000; 2000US-00573080.  
 PR 14-MAY-2001; 2001US-00854867.  
 XX  
 PA (CHIL-) CHILDREN'S MERCY HOSPITAL.  
 XX  
 PI Knoll JHM, Rogan PK, Cazarro PM;  
 XX  
 DR WPI; 2002-062378/08.  
 XX  
 PT Single copy genomic hybridization probes for detecting specific nucleic  
 PT acid sequences in sample by in situ hybridization useful for detection of  
 PT acquired or inherited genetic diseases.  
 XX  
 PS Example 1; SEQ ID NO 107; 67pp; English.  
 XX  
 CC The invention describes a nucleic acid hybridization probe (I) comprising  
 CC a labeled, single copy nucleic acids of at least 50 nucleotides, which  
 CC will hybridize to a deduced single copy sequence interval in target  
 CC nucleic acid (TNA) of known sequence. (I) is useful in a hybridization  
 CC method which comprises preparing a reaction mixture comprising TNA and  
 CC (I) which hybridizes to TNA, and causing (I) to hybridize to TNA, where  
 CC the hybridization method is from in situ hybridization, Southern blot,  
 CC and other methods in which nucleic acid is immobilized, where the method  
 CC further comprises selecting a single copy nucleic acid which will  
 CC hybridize to a duplicon or triplicon sequence domain. (I) is useful for:  
 CC determining the existence of previously unknown repeat sequence families  
 CC in a genome; determining a chromosome breakpoint and in the fields of  
 CC cytogenetics and molecular genetics for determining the presence of  
 CC specific nucleic acid sequences in a sample of eukaryotic origin, e.g.  
 CC the probes may be used to analyze specific chromosomal locations by in  
 CC situ hybridization as a detection of acquired or inherited genetic  
 CC diseases especially for detection of genetic or neoplastic disorders.  
 CC Unlike prior art techniques, (I) permits more precise chromosomal  
 CC breakpoint determinations by in situ hybridization. Hybridization  
 CC techniques utilizing (I), have made it possible to obtain reliable,  
 CC easily detectable signals with relatively small probes. A readily  
 CC detectable signal was obtained with a probe on the order of 2 kb in  
 CC length, using fluorescent in situ hybridization (FISH) technology. This



Query Match 13.2%; Score 121.2; DB 1; Length 541;  
Best Local Similarity 68.8%; Pred. No. 3.5e-26;  
Matches 190; Conservative 3; Mismatches 81; Indels 2; Gaps 2;

Qy	2	CTGTAGAGGGGAATGGCTGCTGTGTTCATGGGGGTGCATGAGCAGCCCACTGGAGAGGTGC	61
Db	197	CTCTGGGGGAAGCCAGCTGCCATGCTATGAAGACACTCAAGCAGCCTA-TGGAGAAGTCC	255
Qy	62	ACTTGGTGAGAAACCGATGCCT-CTGCCAACCACTGCACTAACCTGCTGGGTCTGAGAC	120
		:	
Db	256	ACGTGGSAAAGGAATGAGGTCTCCTGCCAACAGCCAGCTTCGACYTGCCAGCCATGTGAG	315
Qy	121	TGAGCCACTTTGGAAGCTGATCTTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCAC	180
		:	
Db	316	TGAGCCATCTTGAAGCGGATCCTCCAGCCCCAGTYAAGCCTTCAGATGACTGCAGCCCC	375
Qy	181	AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT	240
Db	376	GGCTGACATCTTGACTGCAACCTCATGAGAGACCCTGAGCCAGAACTACCGAGCTAAGCT	435
Qy	241	GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGA	276
		:	
Db	436	GCTCCTARATTCTTGACCCACAGAACTGTGAGATA	471

KW histone cell cycle regulation defective, *S. cerevisiae* homologue A; HIRA;

KW high complexity repeat; in situ hybridisation; Southern blot;  
 KW chromosome breakpoint; inherited genetic disease; neoplastic disorder;  
 KW chromosome 22; DiGeorge syndrome; Velo-Cardio-facial syndrome.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003224356-A1.  
 XX  
 PD 04-DEC-2003.  
 XX  
 PF 14-MAY-2001; 2001US-00854867.  
 XX  
 PR 16-MAY-2000; 2000US-00573080.  
 XX  
 PA (KNOL/) KNOLL J H M.  
 PA (ROGA/) ROGAN P K.  
 XX  
 PI Knoll JHM, Rogan PK;  
 XX  
 DR WPI; 2002-062378/08.  
 XX  
 PT Single copy genomic hybridization probes for detecting specific nucleic  
 PT acid sequences in sample by in situ hybridization useful for detection of  
 PT acquired or inherited genetic diseases.  
 XX  
 PS Example 1; SEQ ID NO 107; 30pp; English.  
 XX  
 CC The invention relates to a nucleic acid hybridisation probe comprising a  
 CC labelled, single copy nucleic acids of at least 50 nucleotides, which  
 CC will hybridise to a deduced single copy sequence interval in target  
 CC nucleic acid (TNA) of known sequence. The single copy sequence is deduced  
 CC by comparing the target nucleic acid (e.g. a disease causing gene) with a  
 CC collection of high and low complexity repeat sequences as found in the  
 CC genome of the organism from containing the target nucleic acid. The probe  
 CC is generated by PCR on the target sequence. The probe is essentially free  
 CC of blocking nucleic acid sequences which will hybridise to repeat  
 CC sequences within the genome of which the TNA is a part, and is labelled  
 CC with a label selected from fluorochrome-responsive labels, fluorochromes,  
 CC calorimetric chemical, conjugated proteins, antibodies, antigens and  
 CC their mixtures. The probe is useful in a hybridisation method, where the  
 CC hybridisation method is from in situ hybridisation, Southern blot, and  
 CC other methods in which nucleic acid is immobilised, where the method  
 CC further comprises selecting a single copy nucleic acid which will  
 CC hybridise to a duplicon or triplicon sequence domain. The probe is useful  
 CC for determining the existence of previously unknown repeat sequence  
 CC families in a genome. The method comprises reacting a labelled probe with  
 CC the genome, causing the probe to hybridise and ascertaining if the probe  
 CC hybridises to the genome at more than three preferably ten different  
 CC locations as a determination of new repeat sequence family, where the

Query Match 13.2%; Score 121.2; DB 1; Length 541;  
Best Local Similarity 68.8%; Pred. No. 3.5e-26;  
Matches 190; Conservative 3; Mismatches 81; Indels 2; Gaps 2;

Qy	2	CTGTAGAGGGGAATGGCTGCTGTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGC	61
Db	197	CTCTGGGGGAAGCCAGCTGCCATGCTATGAAGACACTCAAGCAGCCTA-TGGAGAAGTCC	255
Qy	62	ACTTGGTGAGAAACCGATGCCT-CTGCCAACCACTGCCTAACCTGCTGGGTCTGAGAC	120
Db	256	ACGTGGSAAAGAACTGAGGTCTCCTGCCAACAGCCAGCTTCGACYTGCCAGCCATGTGAG	315
Qy	121	TGAGCCACTTTGGAAGCTGATCTTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCAC	180
		:	
Db	316	TGAGCCATCTTGGAAGCGGATCCTCCAGCCCCAGTYAAGCCTTCAGATGACTGCAGCCCC	375
Qy	181	AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCTTGCTAAATT	240
Db	376	GGCTGACATCTTGACTGCAACCTCATGAGAGACCCTGAGCCAGAACTACCCAGCTAAGCT	435
Qy	241	GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGA	276
		:	
Db	436	GCTCCTARATTCCTGACCCACAGAACTGTGAGATA	471

http://es.ScoreAccessWeb/GetItem.action?AppId=10573... 121050 us-10-573-229a-1.rng&ItemType=4&startByte=0 (19 of 32)/6/15/2009 10:35:14 AM

ID ADC20771 standard; DNA; 737 BP.  
 XX  
 AC ADC20771;  
 XX  
 DT 18-DEC-2003 (first entry)  
 XX  
 DE Human secreted protein-related DNA sequence #189.  
 XX  
 KW gene therapy; human; secreted protein; haemopoietic disorder;  
 KW haematological disorder; anaemia; haemophilia; inflammatory disorder;  
 KW inflammatory bowel disease; Crohn's disease; neoplastic disease; cancer;  
 KW leukaemia; wound healing; epithelial cell proliferation disorder;  
 KW immune disorder; autoimmune disorder; asthmatic disorder;  
 KW cardiovascular disorder; atherosclerosis; myocarditis;  
 KW infectious disease; HIV; AIDS; endocrine disorder; diabetes;  
 KW gastrointestinal disorder; duodenal ulcer; gastroenteritis; gene; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200292787-A2.  
 XX  
 PD 21-NOV-2002.  
 XX  
 PF 26-MAR-2002; 2002WO-US009257.  
 XX  
 PR 27-MAR-2001; 2001US-0278650P.  
 PR 12-SEP-2001; 2001US-00950082.  
 PR 12-SEP-2001; 2001US-00950083.  
 XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Rosen CA, Ruben SM;  
 XX  
 DR WPI; 2003-129287/12.  
 XX  
 PT New human secreted proteins and nucleic acid molecules, useful for  
 PT preparing a diagnostic or pharmaceutical composition for diagnosing,  
 PT preventing or treating hematopoietic or hematologic disorders, e.g.  
 PT anemia or hemophilia.  
 XX  
 PS Disclosure; SEQ ID NO 725; 1512pp; English.  
 XX  
 CC The invention comprises the amino acid and coding sequences of human  
 CC secreted proteins. The DNA and protein sequences of the invention are  
 CC useful for detecting, preventing, diagnosing, prognosticating, treating  
 CC or ameliorating: haematopoietic or haematological disorders (e.g. anaemia  
 CC and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease  
 CC and Crohn's disease); neoplastic disease (e.g. cancer and leukaemia);  
 CC wound healing and disorders of epithelial cell proliferation; immune

CC disorders (e.g. autoimmune disorders and asthmatic disorders);  
CC cardiovascular disorders (e.g. atherosclerosis and myocarditis);  
CC infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);  
CC and gastrointestinal disorders (e.g. duodenal ulcers and  
CC gastroenteritis). The present DNA sequence was used in the  
CC exemplification of the invention.  
XX  
SQ Sequence 737 BP; 198 A; 174 C; 148 G; 217 T; 0 U; 0 Other;

Query Match 11.4%; Score 104.8; DB 1; Length 737;  
Best Local Similarity 68.5%; Pred. No. 4.9e-21;  
Matches 174; Conservative 0; Mismatches 77; Indels 3; Gaps 2;

Qy	24	TGTCATGGGGGTGCATGAGCAGCCAGTGGAGAGGTGCACTTGGTGAGAAACCGATGCCT	83
Db	398	TTTCATGAGGATACTCAAGCATTCCTATGGAGAGATCCACATGGTGAGAACTGAAGCCT	457
Qy	84	-CTGCCAACCACTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC	142
Db	458	CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT	517
Qy	143	TTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCACAGCCAAACAAGACTGCAACC	202
Db	518	CTCTAGCCCTAGTCAGGCCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC	577
Qy	203	TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA	262
Db	578	TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCTACCAACA	635
Qy	263	GAAATTGTGTAAGA	276
Db	636	GAAACTATGTGAGA	649

RESULT 10

ADA44374

ID ADA44374 standard; DNA; 737 BP.

XX

AC ADA44374:

XX

DT 20-NOV-2003 (first entry)

XX

DE Human secreted protein DNA SEQ ID 567.

XX

KW Gene therapy; human; Antidiabetic; Anorectic; Ophthalmological;

KW    Neuroprotective; Cerebroprotective; Antianemic; ds.

XX

OS Homo sapiens.

XX



ADF10918

XX

AC ADF10918:

XX

DT 12-FEB-2004 (first entry)

XX

DE Human secreted protein encoding sequence #240.

XX

KW H6EDM64; HBHAA05; HBJCR46; HBJKD16; HCMSX51; HCQBH72; HDPPQ30; HE2CM39;

KW HE9EA10; HGBHP91; HLDQU79; Cytostatic; Hepatotropic; Antidiabetic;

KW Antiinflammatory; neuroprotective; Anti-HIV; Vulnerary; Gynecological;

KW Antiinfertility; Gene therapy; gastrointestinal disorder; cancer;

KW Alzheimer's disease; chromosome identification; ds.

XX

OS Homo sapiens.

XX

PN WO200299085-A2.

XX

PD 12-DEC-2002.

XX

PF 26-MAR-2002; 2002WO-US009135.

XX

PR 27-MAR-2001; 2001US-0278650P.

PR 12-SEP-2001; 2001US-00950082.

PR 12-SEP-2001: 2001US-00950083.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

XX

PI Rosen CA, Ruben SM:

XX

DR WPI; 2003-221310/21.

XX

PT New human secreted polypeptides for diagnosing and treating neural,  
PT immune system, muscular, reproductive, gastrointestinal, cardiovascular,  
PT renal, and proliferative disorders and cancerous diseases.

XX

http://es.ScoreAccessWeb/GetItem.action?AppId=10573... 121050 us-10-573-229a-1.rng&ItemType=4&startByte=0 (24 of 32)/6/15/2009 10:35:14 AM



Qy 263 GAAATTGTGTAAGA 276  
 |||| | ||| |||  
 Db 636 GAAACTATGTGAGA 649

RESULT 12

ADA98650

ID ADA98650 standard; DNA; 737 BP.

XX

AC ADA98650;

XX

DT 20-NOV-2003 (first entry)

XX

DE Human secreted protein-related DNA sequence #243.

XX

KW human; secreted protein; cardiovascular disorder; arrhythmia;  
 KW atherosclerosis; stroke; endocarditis; congestive heart failure;  
 KW rheumatic heart disease; cardiomyopathy; hemorrhoids; varicose veins;  
 KW migraine; thrombosis; neural disorder; immune system disorder;  
 KW muscular disorder; reproductive disorder; gastrointestinal disorder;  
 KW pulmonary disorder; renal disorder; proliferative disorder; cancer; ds.

XX

OS Homo sapiens.

XX

PN WO2003004623-A2.

XX

PD 16-JAN-2003.

XX

PF 26-MAR-2002; 2002WO-US009922.

XX

PR 27-MAR-2001; 2001US-0278650P.

PR 12-SEP-2001; 2001US-00950082.

PR 12-SEP-2001; 2001US-00950083.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

XX

PI Rosen CA, Ruben SM;

XX

DR WPI; 2003-247946/24.

XX

PT New human secreted polypeptide and nucleic acid molecules, useful for  
 PT diagnosing, preventing, prognosticating or treating cardiovascular  
 PT disorders (e.g. arrhythmia, atherosclerosis, cardiomyopathy, or  
 PT thrombosis).

XX

PS Disclosure; SEQ ID NO 759; 1572pp; English.

XX

CC The invention comprises the amino acid and coding sequence of human  
 CC secreted proteins. The DNA and protein sequences of the invention are

SQ Sequence 737 BP; 198 A; 174 C; 148 G; 217 T; 0 U; 0 Other;

Query Match 11.4%; Score 104.8; DB 1; Length 737;  
Best Local Similarity 68.5%; Pred. No. 4.9e-21;  
Matches 174; Conservative 0; Mismatches 77; Indels 3; Gaps 2;

Qy	24	TGTCATGGGGGTGCATGAGCAGCCAGTGGAGAGGTGCACCTTGGTGAGAAACCGATGCCT	83
Db	398	TTTCATGAGGATACTCAAGCATTCCTATGGAGAGATCCACATGGTGAGAACTGAAGCCT	457
Qy	84	-CTGCCAACCACTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC	142
Db	458	CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT	517
Qy	143	TTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCACAGCCAACAACAAGACTGCAACC	202
Db	518	CTCTAGCCCTAGTCAGGCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC	577
Qy	203	TCCTGGGGGATCCTGAGCCAGAATCCCTTGGCTAAATTGCTCCTTGATTCTTAACCCACA	262
Db	578	TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCTTACCAACA	635
Qy	263	GAAATTGTGTAAGA	276
Db	636	GAAACTATGTGAGA	649

## AOD72587

ID AOD72587 standard: cDNA: 737 BP.

AC AOD72587;

DT 01-MAY-2008 (first entry)

DE Human secreted protein cDNA sequence, SEQ ID 6677.

KW therapy; cancer; cytostatic; immune disorder; immunomodulator;

KW hematological disease; antianemic; reproduction disorder;  
 KW musculoskeletal disease; muscular-gen.; osteopathic;  
 KW genitourinary disease; uropathic; neurological disease; neuroprotective;  
 KW respiratory disease; respiratory-gen.; endocrine disease; endocrine-gen.;  
 KW gastrointestinal disease; gastrointestinal-gen.; gene; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2007032413-A1.  
 XX  
 PD 08-FEB-2007.  
 XX  
 PF 26-MAR-2002; 2002US-00105299.  
 XX  
 PR 26-MAR-2002; 2002US-00105299.  
 XX  
 PA (ROSE/) ROSEN C A.  
 PA (RUBE/) RUBEN S M.  
 XX  
 PI Rosen CA, Ruben SM;  
 XX  
 DR WPI; 2007-341847/32.  
 XX  
 PT New isolated human secreted proteins, useful for detecting, preventing,  
 PT diagnosing, prognosticating, treating, or ameliorating diseases and  
 PT disorders related to the proteins, e.g. cancers, reproductive, or  
 PT cardiovascular diseases.  
 XX  
 PS Example 1; SEQ ID NO 6677; 339pp; English.  
 XX  
 CC The present invention relates to human secreted polypeptides and their  
 CC coding sequences. Also claimed are: a composition comprising the  
 CC polypeptide and a carrier; and an isolated protein produced by (a)  
 CC expressing the polypeptide by a cell; and (b) recovering the protein.  
 CC Also disclosed as new are: antibodies that bind these polypeptides;  
 CC vectors; host cells; recombinant and synthetic methods for producing the  
 CC polynucleotides, polypeptides, and/or antibodies; screening methods for  
 CC identifying agonists and antagonists of polynucleotides and polypeptides;  
 CC and methods and compositions for inhibiting or enhancing the production  
 CC and function of the polypeptides. The polypeptides are useful for  
 CC detecting, preventing, diagnosing, prognosticating, treating, and/or  
 CC ameliorating diseases and disorders related to the proteins or  
 CC polypeptides. Diseases and disorders include cancers;  
 CC immune/hematopoietic disorders (e.g. anemia, pancytopenia, leukopenia,  
 CC thrombocytopenia, or plasmacytomas); reproductive disorders (e.g.  
 CC cryptorchism, prostatitis, inguinal hernia, varicocele, or leydig cell  
 CC tumors); musculoskeletal disorders (e.g. osteochondromas, benign  
 CC chondromas, Paget's disease, or rheumatoid arthritis); cardiovascular  
 CC diseases (e.g. heart failure, congestive heart disease, arrhythmia,

Query Match 11.4%; Score 104.8; DB 3; Length 737;  
Best Local Similarity 68.5%; Pred. No. 4.9e-21;  
Matches 174; Conservative 0; Mismatches 77; Indels 3; Gaps 2;

Qy	24	TGTCATGGGGGTGCATGAGCAGCCAGTGGAGAGGTGCACCTTGGTGAGAAACCGATGCCT	83
Db	398	TTTCATGAGGATACTCAAGCATTCTATGGAGAGATCCACATGGTGAGAAACTGAAGCCT	457
Qy	84	-CTGCCAACCACTGCTAACTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC	142
Db	458	CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT	517
Qy	143	TTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCACAGCCAACAACAAGACTGCAACC	202
Db	518	CTCTAGCCCTAGTCAGGCCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC	577
Qy	203	TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA	262
Db	578	TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA	635
Qy	263	GAAATTGTGTAAGA	276
Db	636	GAAACTATGTGAGA	649

DT 12-FEB-2001 (first entry)

XX  
DE Human secreted protein gene 37 SEQ ID NO:47.  
XX  
KW Human; secreted protein; diagnosis; cytostatic; immunosuppressive;  
KW nootropic; neuroprotective; antiviral; antiallergic; hepatotropic;  
KW antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant;  
KW antibacterial; antifungal; antiparasitic; cardiant; gene therapy;  
KW food additive; preservative; chromosome identification; cancer;  
KW immune disorder; cardiovascular disorder; neurological disease;  
KW wound healing; infectious disease; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200058339-A2.  
XX  
PD 05-OCT-2000.  
XX  
PF 22-MAR-2000; 2000WO-US007440.  
XX  
PR 26-MAR-1999; 99US-0126503P.  
PR 17-DEC-1999; 99US-0172409P.  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Ruben SM, Komatsoulis G;  
XX  
DR WPI; 2000-594637/56.  
DR P-PSDB; AAB44632.  
XX  
PT Fifty nucleic acid molecules encoding human secreted proteins, useful in  
PT the prevention, treatment and diagnosis of cancer, immune disorders,  
PT cardiovascular disorders and neurological diseases.  
XX  
PS Claim 1; Page 357-358; 410pp; English.  
XX  
CC The polynucleotide sequences given in AAC79681 to AAC79730 encode the  
CC human secreted proteins given in AAB44596 to AAB44645. AAB44646 to  
CC AAB44693 represent human secreted polypeptide sequences and proteins  
CC homologous to them, which are given in the exemplification of the present  
CC invention. Human secreted proteins have activities based on the tissues  
CC and cells the genes are expressed in. Examples of activities include:  
CC cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;  
CC antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;  
CC vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; and  
CC cardiant. The polynucleotides and polypeptides are useful for preventing,  
CC treating or ameliorating a medical condition in e.g. humans, mice,  
CC rabbits, goats, horses, cats, dogs, chickens or sheep. The polypeptides  
CC can also be used as a food additive or preservative to increase or  
CC decrease storage capabilities. The polynucleotides are useful for

Query Match 11.4%; Score 104.8; DB 1; Length 797;  
Best Local Similarity 68.5%; Pred. No. 5e-21;  
Matches 174; Conservative 0; Mismatches 77; Indels 3; Gaps 2;

Qy	24	TGTCATGGGGGTGCATGAGCAGCCAGTGGAGAGGTGCACCTTGGTGAGAAACCGATGCCT	83
Db	383	TTTCATGAGGATACTCAAGCATTCCCTATGGAGAGATCCACATGGTGAGAACTGAAGCCT	442
Qy	84	-CTGCCAACCACTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC	142
Db	443	CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT	502
Qy	143	TTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCACAGCCAAACAACAAGACTGCAACC	202
Db	503	CTCTAGCCCTAGTCAGGCCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC	562
Qy	203	TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA	262
Db	563	TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA	620
Qy	263	GAAATTGTGTAAGA	276
Db	621	GAAACTATGTGAGA	634

## KW haematological disorder; anaemia; haemophilia; inflammatory disorder;

KW inflammatory bowel disease; Crohn's disease; neoplastic disease; cancer;  
 KW leukaemia; wound healing; epithelial cell proliferation disorder;  
 KW immune disorder; autoimmune disorder; asthmatic disorder;  
 KW cardiovascular disorder; atherosclerosis; myocarditis;  
 KW infectious disease; HIV; AIDS; endocrine disorder; diabetes;  
 KW gastrointestinal disorder; duodenal ulcer; gastroenteritis; gene; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200292787-A2.  
 XX  
 PD 21-NOV-2002.  
 XX  
 PF 26-MAR-2002; 2002WO-US009257.  
 XX  
 PR 27-MAR-2001; 2001US-0278650P.  
 PR 12-SEP-2001; 2001US-00950082.  
 PR 12-SEP-2001; 2001US-00950083.  
 XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Rosen CA, Ruben SM;  
 XX  
 DR WPI; 2003-129287/12.  
 XX  
 PT New human secreted proteins and nucleic acid molecules, useful for  
 PT preparing a diagnostic or pharmaceutical composition for diagnosing,  
 PT preventing or treating hematopoietic or hematologic disorders, e.g.  
 PT anemia or hemophilia.  
 XX  
 PS Claim 1; SEQ ID NO 117; 1512pp; English.  
 XX  
 CC The invention comprises the amino acid and coding sequences of human  
 CC secreted proteins. The DNA and protein sequences of the invention are  
 CC useful for detecting, preventing, diagnosing, prognosticating, treating  
 CC or ameliorating: haematopoietic or haematological disorders (e.g. anaemia  
 CC and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease  
 CC and Crohn's disease); neoplastic disease (e.g. cancer and leukaemia);  
 CC wound healing and disorders of epithelial cell proliferation; immune  
 CC disorders (e.g. autoimmune disorders and asthmatic disorders);  
 CC cardiovascular disorders (e.g. atherosclerosis and myocarditis);  
 CC infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);  
 CC and gastrointestinal disorders (e.g. duodenal ulcers and  
 CC gastroenteritis). The present DNA sequence encodes a human secreted  
 CC protein of the invention.  
 XX  
 SQ Sequence 797 BP; 269 A; 173 C; 149 G; 206 T; 0 U; 0 Other;

Query Match 11.4%; Score 104.8; DB 1; Length 797;

[http://es.ScoreAccessWeb/GetItem.action?AppId=10573...\\_121050\\_us-10-573-229a-1.rng&ItemType=4&startByte=0](http://es.ScoreAccessWeb/GetItem.action?AppId=10573..._121050_us-10-573-229a-1.rng&ItemType=4&startByte=0) (32 of 32)6/15/2009 10:35:14 AM